OS⁷Ø

0319

4

ENTERED   OIPE

RAW SEQUENCE LISTING   DATE: 03/14/2002
PATENT APPLICATION: US/09/828,645   TIME: 13:58:34

Input Set : A:\09828645 sequence list.txt
Output Set: N:\CRF3\03142002\I828645.raw

2 <110> APPLICANT: Hu, Yao Xiong
4 <120> TITLE OF INVENTION: Immunological Methodology for Discerning Human
Papillomavirus
6 <130> FILE REFERENCE: 146-1-002
8 <140> CURRENT APPLICATION NUMBER: 09/828,645
9 <141> CURRENT FILING DATE: 2001-04-05
11 <150> PRIOR APPLICATION NUMBER: US 60/194,796
12 <151> PRIOR FILING DATE: 2000-04-05
14 <160> NUMBER OF SEQ ID NOS: 8
16 <170> SOFTWARE: PatentIn version 3.1
18 <210> SEQ ID NO: 1
19 <211> LENGTH: 19
20 <212> TYPE: PRT
21 <213> ORGANISM: Artificial Sequence
23 <220> FEATURE:
24 <223> OTHER INFORMATION: Derived from theE2 early region of HPV-16
26 <400> SEQUENCE: 1
28 Asp Ile Cys Asn Thr Met His Tyr Thr Asn Trp Thr His Ile Tyr Ile
29 1   5   10   15
32 Cys Glu Glu
36 <210> SEQ ID NO: 2
37 <211> LENGTH: 16
38 <212> TYPE: PRT
39 <213> ORGANISM: Artificial Sequence
41 <220> FEATURE:
42 <223> OTHER INFORMATION: Derived from the E2 early region of HPV-16
44 <400> SEQUENCE: 2
46 His Lys Ser Ala Ile Val Thr Leu Thr Tyr Asp Ser Glu Trp Gln Arg
47 1   5   10   15
50 <210> SEQ ID NO: 3
51 <211> LENGTH: 30
52 <212> TYPE: PRT
53 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Derived from the E7 early region of HPV-16
58 <400> SEQUENCE: 3
60 Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Asp
61 1   5   10   15
64 Leu Tyr Cys Tyr Glu Gln Leu Asn Asp Ser Ser Glu Glu Glu
65   20   25   30
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 20
70 <212> TYPE: PRT
71 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING   DATE: 03/14/2002
PATENT APPLICATION: US/09/828,645   TIME: 13:58:34

Input Set : A:\09828645 sequence list.txt
Output Set: N:\CRF3\03142002\I828645.raw

```
 73 <220> FEATURE:
 74 <223> OTHER INFORMATION: Derived from the E7 early region of HPV-16
 76 <400> SEQUENCE: 4
 78 Cys Asp Ser Thr Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile
 79 1               5                   10                  15
 82 Arg Thr Leu Glu
 83               20
 86 <210> SEQ ID NO: 5
 87 <211> LENGTH: 19
 88 <212> TYPE: PRT
 89 <213> ORGANISM: Artificial Sequence
 91 <220> FEATURE:
 92 <223> OTHER INFORMATION: Derived from the E2 early region of HPV-18
 94 <400> SEQUENCE: 5
 96 Glu Lys Thr Gly Ile Leu Thr Val Thr Tyr His Ser Glu Thr Gln Arg
 97 1               5                   10                  15
100 Thr Lys Phe
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 19
106 <212> TYPE: PRT
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: Derived from the E2 early region of HPV-16
112 <220> FEATURE:
113 <221> NAME/KEY: MISC_FEATURE
114 <222> LOCATION: (3)..(3)
115 <223> OTHER INFORMATION: Xaa = L-Carboxymethylcysteine
118 <220> FEATURE:
119 <221> NAME/KEY: MISC_FEATURE
120 <222> LOCATION: (17)..(17)
121 <223> OTHER INFORMATION: Xaa = L-Carboxymethylcysteine
124 <400> SEQUENCE: 6
W--> 126 Asp Ile Xaa Asn Thr Met His Tyr Thr Asn Trp Thr His Ile Tyr Ile
     127 1               5                   10                  15
W--> 130 Xaa Glu Glu
134 <210> SEQ ID NO: 7
135 <211> LENGTH: 30
136 <212> TYPE: PRT
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Derived from the E7 early region of HPV-16
142 <220> FEATURE:
143 <221> NAME/KEY: misc_feature
144 <222> LOCATION: (19)..(19)
145 <223> OTHER INFORMATION: Xaa = L-carboxymethylcysteine
148 <400> SEQUENCE: 7
150 Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln Pro Glu Thr Thr Asp
     151 1               5                   10                  15
W--> 154 Leu Tyr Xaa Tyr Glu Gln Leu Asn Asp Ser Ser Glu Glu Glu
```

RAW SEQUENCE LISTING   DATE: 03/14/2002
PATENT APPLICATION: US/09/828,645   TIME: 13:58:34

Input Set : **A:\09828645 sequence list.txt**
Output Set: **N:\CRF3\03142002\I828645.raw**

```
155                20                25                30
158 <210> SEQ ID NO: 8
159 <211> LENGTH: 20
160 <212> TYPE: PRT
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: Derived from the E7 early region E7 of HPV-16
166 <220> FEATURE:
167 <221> NAME/KEY: misc_feature
168 <222> LOCATION: (1)..(1)
169 <223> OTHER INFORMATION: Xaa = L-carboxymethylcysteine
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (8)..(8)
175 <223> OTHER INFORMATION: Xaa = L-carboxymethylcysteine
178 <400> SEQUENCE: 8
```

W--> 180 Xaa Asp Ser Thr Leu Arg Leu Xaa Val Gln Ser Thr His Val Asp Ile
```
181 1                5                 10                15
184 Arg Thr Leu Glu
185                20
```

VERIFICATION SUMMARY   DATE: 03/14/2002
PATENT APPLICATION: US/09/828,645   TIME: 13:58:35

Input Set : **A:\09828645 sequence list.txt**
Output Set: **N:\CRF3\03142002\I828645.raw**

```
L:126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8
```